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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/935,338

DATE: 02/12/2003 p.6
TIME: 09:02:37

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\02112003\I935338.raw

3 <110> APPLICANT: MUKAI, Hiroyuki
 4 SAGAWA, Hiroaki
 5 UEMORI, Takashi
 6 YAMAMOTO, Junko
 7 TOMONO, Jun
 8 KOBAYASHI, Eiji
 9 ENOKI, Tatsuji
 10 TAKEDA, Osamu
 11 MIYAKE, Kazue
 12 SATO, Yoshimi
 13 MORIYAMA, Mariko
 14 SAWARAGI, Haruhisa
 15 HAGIYA, Michio
 16 ASADA, Kiyozo
 17 KATO, Ikunoshin
 19 <120> TITLE OF INVENTION: A method for amplification of nucleic acids
 21 <130> FILE REFERENCE: MUKAI=1
 23 <140> CURRENT APPLICATION NUMBER: 09/935,338
 24 <141> CURRENT FILING DATE: 2001-08-23
 26 <150> PRIOR APPLICATION NUMBER: JP11-076966
 27 <151> PRIOR FILING DATE: 1999-03-19
 29 <150> PRIOR APPLICATION NUMBER: JP11-370035
 30 <151> PRIOR FILING DATE: 1999-12-27
 32 <150> PRIOR APPLICATION NUMBER: JP2000-251981
 33 <151> PRIOR FILING DATE: 2000-08-23
 35 <150> PRIOR APPLICATION NUMBER: JP2000-284419
 36 <151> PRIOR FILING DATE: 2000-09-19
 38 <150> PRIOR APPLICATION NUMBER: JP2000-288750
 39 <151> PRIOR FILING DATE: 2000-09-22
 41 <150> PRIOR APPLICATION NUMBER: JP2001-104191
 42 <151> PRIOR FILING DATE: 2001-04-03
 44 <150> PRIOR APPLICATION NUMBER: PCT/JP00/01534
 45 <151> PRIOR FILING DATE: 2000-03-14
 47 <160> NUMBER OF SEQ ID NOS: 290
 49 <170> SOFTWARE: PatentIn version 3.2
 51 <210> SEQ ID NO: 1
 52 <211> LENGTH: 99
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: Synthetic DNA corresponding to a portion of human transferrin
 58 receptor-encoding sequence used as a template
 60 <400> SEQUENCE: 1

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```

61 ggacagcaac tgggccagca aagttgagaa actcacttta gagaattctg ctttcccttt      60
63 ccttgcatat tctgagcagt ttctttctgt ttttgcgag      99
66 <210> SEQ ID NO: 2
67 <211> LENGTH: 22
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of human
73     transferrin receptor-encoding sequence
75 <400> SEQUENCE: 2
76 cagcaactgg gccagcaaag tt      22
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 22
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of human
86     transferrin receptor-encoding sequence
88 <400> SEQUENCE: 3
89 gcaaaaacag aaagaaactg ct      22
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 22
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a portion
of
99     human transferrin receptor-encoding sequence. "nucleotide 21 is
100     ribonucleotide-other nucleotides are deoxyribonucleotides"
102 <400> SEQUENCE: 4
103 cagcaactgg gccagcaaag ut      22
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 22
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
113     human transferrin receptor-encoding sequence. "nucleotide 21 is
114     ribonucleotide-other nucleotides are deoxyribonucleotides"
116 <400> SEQUENCE: 5
117 gcaaaaacag aaagaaactg ct      22
120 <210> SEQ ID NO: 6
121 <211> LENGTH: 22
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
127     human transferrin receptor-encoding sequence. "nucleotide 22 is
128     ribonucleotide-other nucleotides are deoxyribonucleotides"
130 <400> SEQUENCE: 6

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131 cagcaactgg gccagcaaag tu 22
134 <210> SEQ ID NO: 7
135 <211> LENGTH: 22
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
141 human transferrin receptor-encoding sequence. "nucleotides 21 to
142 22 are ribonucleotides-other nucleotides are
143 deoxyribonucleotides"
145 <400> SEQUENCE: 7
146 gcaaaaacag aaagaaactg cu 22
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 22
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
156 human transferrin receptor-encoding sequence. "nucleotides 21 to
157 22 are ribonucleotides-other nucleotides are
158 deoxyribonucleotides"
160 <400> SEQUENCE: 8
161 cagcaactgg gccagcaaag uu 22
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 22
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
171 human transferrin receptor-encoding sequence. "nucleotides 21 to
172 22 are ribonucleotides-other nucleotides are
173 deoxyribonucleotides"
175 <400> SEQUENCE: 9
176 gcaaaaacag aaagaaactg cu 22
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 22
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
186 human transferrin receptor-encoding sequence. "nucleotides 19 to
187 20 are ribonucleotides-other nucleotides are
188 deoxyribonucleotides"
190 <400> SEQUENCE: 10
191 cagcaactgg gccagcaaag tt 22
194 <210> SEQ ID NO: 11
195 <211> LENGTH: 22
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial

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199 <220> FEATURE:
200 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
201     human transferrin receptor-encoding sequence. "nucleotides 19 to
202     20 are ribonucleotides-other nucleotides are
203     deoxyribonucleotides"
205 <400> SEQUENCE: 11
206 gcaaaaacag aaagaaacug ct                                22
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 26
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Designed oligonucleotide used as a probe for detecting an
216     amplified portion of human transferrin receptor-encoding sequence
218 <400> SEQUENCE: 12
219 tgctttccct ttccttgcatt attctg                                26
222 <210> SEQ ID NO: 13
223 <211> LENGTH: 25
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer designated as pUC19
229     upper(2)NN to amplify a portion of plasmid pUC19. "nucleotides 24
230     to 25 are ribonucleotides-other nucleotides are
231     deoxyribonucleotides"
233 <400> SEQUENCE: 13
234 attgcttaatt cagtgaggca cctau                                25
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 25
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer designated as pUC19
244     lower NN to amplify a portion of plasmid pUC19. "nucleotides 24
245     to 25 are ribonucleotides-other nucleotides are
246     deoxyribonucleotides"
248 <400> SEQUENCE: 14
249 gataacactg cggccaactt actuc                                25
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
259     plasmid pUC19. "nucleotides 24 to 25 are ribonucleotides-other
260     nucleotides are deoxyribonucleotides"
262 <400> SEQUENCE: 15
263 actggcgaac tacttactct agcuu                                25
266 <210> SEQ ID NO: 16

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267 <211> LENGTH: 26
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer designated as pUC19
273     lower 542 to amplify a portion of plasmid pUC19. "nucleotides 24
274     to 25 are ribonucleotides-other nucleotides are
275     deoxyribonucleotides"
277 <400> SEQUENCE: 16
278 agtcaccaga aaagcatctt acggau                                26
281 <210> SEQ ID NO: 17
282 <211> LENGTH: 25
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a
portion of
288     plasmid pUC19. "nucleotides 24 to 25 are ribonucleotides-other
289     nucleotides are deoxyribonucleotides"
291 <400> SEQUENCE: 17
292 gctcatgaga caataaccct gataa                                25
295 <210> SEQ ID NO: 18
296 <211> LENGTH: 25
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Designed oligonucleotide primer designated as pUC19 upper
150 to
302     amplify a portion of plasmid pUC19. "nucleotides 23 to 25 are
303     ribonucleotides-other nucleotides are deoxyribonucleotides"
305 <400> SEQUENCE: 18
306 ggtgtcacgc tcgtcgtttg gtaug                                25
309 <210> SEQ ID NO: 19
310 <211> LENGTH: 25
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer designated as pUC19
316     lower NN to amplify a portion of plasmid pUC19. "nucleotides 23
317     to 25 are ribonucleotides-other nucleotides are
318     deoxyribonucleotides"
320 <400> SEQUENCE: 19
321 gataacactg cggccaactt acuuc                                25
324 <210> SEQ ID NO: 20
325 <211> LENGTH: 25
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Designed chimeric oligonucleotide primer designated as pUC19
331     upper 249 to amplify a portion of plasmid pUC19. "nucleotides 23
332     to 25 are ribonucleotides-other nucleotides are

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/935,338

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:97; N Pos. 15
Seq#:98; N Pos. 18
Seq#:108; N Pos. 15,18
Seq#:109; N Pos. 15
Seq#:153; N Pos. 18
Seq#:154; N Pos. 17
Seq#:155; N Pos. 16
Seq#:156; N Pos. 17
Seq#:157; N Pos. 16
Seq#:158; N Pos. 15

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:100,101,102,103,106,107,108,109,110,111,114,116,117,120,121,122,123,124
Seq#:125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142
Seq#:143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160
Seq#:161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178
Seq#:179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196
Seq#:197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214
Seq#:215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,235
Seq#:236,240,241,244,245,246,247,248,249,250,251,252,253,254,255,260,261,262
Seq#:263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280
Seq#:281,282,283,284,285,286,287,288,289,290

VERIFICATION SUMMARY

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Input Set : A:\sequence listing.txt

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L:1440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0
L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:1682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:1701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:2492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0
L:2512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0
L:2532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0
L:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0
L:2572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:0
L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:0